



# Missouri Department of Natural Resources

## PUBLIC NOTICE

### DRAFT MISSOURI STATE OPERATING PERMIT

DATE: May 26, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curd v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by June 26, 2006 or received in our office by 5:00 p.m. on June 29, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm>, or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: May 12, 2006

Permit Number: MO-0098043

St. Louis Regional Office

<b>FACILITY NAME AND ADDRESS</b>	<b>NAME AND ADDRESS OF OWNER</b>
Sylvan Manor - Sunset Acres Sewer District 3766 Sunrise Drive, Pacific, MO 63069	Sylvan Manor - Sunset Acres Sewer District 3766 Sunrise Drive, Pacific, MO 63069
<b>RECEIVING STREAM &amp; LEGAL DESCRIPTION</b>	<b>TYPE OF DISCHARGE</b>
Tributary to Meramec River NE1/4, SE1/4, NW1/4, Sec. 36, T43N, R2E, Franklin County	Domestic Reissue

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0098043

Owner: Sylvan Manor - Sunset Acres Sewer District  
Address: c/o Ed Tenny, 3766 Sunrise Drive, Pacific, MO 63069

Continuing Authority: Same as above  
Address: Same as above

Facility Name: Sylvan Manor - Sunset Acres Sewer District  
Facility Address: Pacific, MO 63069

Legal Description: NE ¼, SE ¼, NW ¼, Sec. 36, T43N, R2E, Franklin County  
Latitude/Longitude: +382537.1/-904447.6  
Receiving Stream: Wet Weather Tributary to Meramec River (U)  
First Classified Stream and ID: Meramec River (P) (01841)  
USGS Basin & Sub-watershed No.: (07140102-070004)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

Outfall #001 - Subdivision - SIC #4952  
Extended aeration/aerated sludge holding tank/seasonal chlorination/sludge disposal is by contract hauler.  
Design population equivalent is 300.  
Design flow is 30,000 gallons per day. Adjusted design flow is 17,999 gallons per day.  
Actual flow is 17,800 gallons per day.  
Design sludge production is 5.4 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

\_\_\_\_\_  
Effective Date

\_\_\_\_\_  
Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

\_\_\_\_\_  
Expiration Date  
MO 780-0041 (10-93)

\_\_\_\_\_  
Mike Struckhoff, Director, St. Louis Regional Office

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 2 of 5	
					PERMIT NUMBER MO-0098043	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until November 28, 2009. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (Note 1)</u>						
Flow	MGD	*		*	once/week	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ***	mg/L		45	30	once/month	**
Total Suspended Solids***	mg/L		45	30	once/month	**
Temperature	°C	*		*	once/month	grab
pH - Units	SU	****		****	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Fecal Coliform*****	#/100mL	1000		400	once/month	grab
Total Residual Chlorine	mg/L	1.0		1.0	once/week	grab
<u>INFLUENT MONITORING</u>						
Weather Conditions Ambient Temperature & Precipitation					once/week	
Flow	MGD	*		*	once/week	24 hr. estimate
pH-Units	SU	*		*	once/week	grab
Total Suspended Solids	mg/L	*		*	once/week	grab
Settleability	mg/L	*		*	once/week	grab
Dissolved Oxygen	mg/L	*		*	once/week	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

- \* Monitoring requirement only.
- \*\* A composite sample made up from a minimum of four grab samples collected within 24 hour period with a minimum of two hours between each grab sample.
- \*\*\* This facility is required to meet a removal efficiency of 85% or more.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\*\* Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0098043	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective November 29, 2009 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (Note 1)</u>						
Flow	MGD	*		*	once/week	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ***	mg/L		45	30	once/month	**
Total Suspended Solids***	mg/L		45	30	once/month	**
Temperature	°C	*		*	once/month	grab
pH - Units	SU	****		****	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Fecal Coliform	#/100mL	1000		400	once/month	grab
Total Residual Chlorine (Notes 2&3)	mg/L	0.019 (.13ML)		0.01 (.13ML)	once/week	grab
<u>INFLUENT MONITORING</u>						
Weather Conditions Ambient Temperature & Precipitation					once/week	
Flow	MGD	*		*	once/week	24 hr. estimate
pH-Units	SU	*		*	once/week	grab
Total Suspended Solids	mg/L	*		*	once/week	grab
Settleability	mg/L	*		*	once/week	grab
Dissolved Oxygen	mg/L	*		*	once/week	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

- \* Monitoring requirement only.
- \*\* A composite sample made up from a minimum of four grab samples collected within 24 hour period with a minimum of two hours between each grab sample.
- \*\*\* This facility is required to meet a removal efficiency of 85% or more.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 1- A formal water quality sheet was not done.

Note 2 – Final limitations and monitoring requirements for Fecal Coliform and Total Residual Chlorine are applicable only during the recreational season from April 1 through October 31.

Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.

- a. This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500-CL G. from Standard Methods for the Examination of Water and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- b. Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - a. Comply with any applicable effluent standard or limitation issued or approved under Sections 304(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances.

The permittee shall notify the Director as soon as it knows or has reason to believe:

  - a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
  - c. That the effluent limit established in part A of the permit will be exceeded.
5. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

6. Water Quality Standards.

- a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- a. Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- b. If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

D. SCHEDULE OF COMPLIANCE:

The final daily maximum and monthly average Total Residual Chlorine (TRC) limits of 0.019 mg/L and 0.010 mg/L, respectively shall become effective November 29, 2009 in accordance with the following schedule:

- 1) By June 28, 2007, submit an engineering report identifying the steps to improve the existing treatment facility or eliminate the discharge.
- 2) By January 28, 2008, submit plans and specifications and an application with appropriate fees for a construction permit to improve the existing system or eliminate the discharge.
- 3) By November 29, 2009, this project must be completed according to the approved plans and specifications and final limits must be met.

Date of Fact Sheet: May 22, 2006

Date of Public Notice: May 26, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT  
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0098043

FACILITY NAME: Sylvan Manor-Sunset Acres Sewer District

OWNER NAME: Sylvan Manor-Sunset Acres Sewer District

LOCATION: NE1/4, SE1/4, NW1/4, Sec. 36, T43N, R2E, Franklin County:

RECEIVING STREAM: Tributary to Meramec River

FACILITY CONTACT PERSON: Edwin L. Tenny TELEPHONE: (314) 606-8641

FACILITY DESCRIPTION AND RATIONALE

This facility provides secondary treatment of the wastewater discharge with an extended aeration unit with chlorination. Sludge removal is by a contract hauler. The design flow of the discharge is 30,000 gallons per day, while the adjusted design flow is 17,999 gallons per day. Due to the small size of the discharge, standard technology-based limits for BOD<sub>5</sub>, TSS and pH from 10 CSR 20-7.015(8) are assumed to be necessary to protect the receiving stream. However, this assumption may be negated by other nearby discharges into the same receiving stream. Monitoring for temperature and Ammonia are included to determine whether "reasonable potential" to exceed state water quality standards, for these parameters, exists. No water quality review sheet was prepared for this facility. This facility will have till November 29, 2009 to meet the dechlorination requirements as stated by the schedule of compliance in part D of this permit. The permit should contain a "reopener clause" to address water quality issues should this or other monitoring data indicate water quality standards are being exceeded, due in part to this discharge.

This permit will be issued for a period of five years.



